

=> d his

(FILE 'HOME' ENTERED AT 18:19:15 ON 05 APR 2004)

FILE 'CA, BIOSIS, MEDLINE' ENTERED AT 18:19:35 ON 05 APR 2004

L1 79530 S HYPOTENSION?
L2 2450 S ?METHYLCYSTEINE?
L3 4 S L1 AND L2

=>

Refine Search

Search Results -

| Term | Documents |
|---|-----------|
| (2 AND 1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 3 |
| (L1 AND L2).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 3 |

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Monday, April 05, 2004 [Printable Copy](#) [Create Case](#)

| <u>Set</u> <u>Name</u> <u>Query</u> side by side | <u>Hit</u> <u>Count</u> | <u>Set</u> <u>Name</u> result set |
|--|----------------------------|--|
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> | | |
| <u>L3</u> 11 and 12 | 3 | <u>L3</u> |
| <u>L2</u> alkythiol or ethylcystein or methylcysteine or methylcysteamine or ethylcysteamine or ethylglutathione or methylglutathione or methylcoenzyme a or ethylcoenzyme a | 386 | <u>L2</u> |
| <u>L1</u> hypotension | 8827 | <u>L1</u> |

END OF SEARCH HISTORY

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Welcome to STN International! Enter x:x

LOGINID:SSSPTAU188MXM

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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|--------------|----|--------|---|
| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 09 | CA/CAPLUS records now contain indexing from 1907 to the present |
| NEWS | 4 | DEC 08 | INPADOC: Legal Status data reloaded |
| NEWS | 5 | SEP 29 | DISSABS now available on STN |
| NEWS | 6 | OCT 10 | PCTFULL: Two new display fields added |
| NEWS | 7 | OCT 21 | BIOSIS file reloaded and enhanced |
| NEWS | 8 | OCT 28 | BIOSIS file segment of TOXCENTER reloaded and enhanced |
| NEWS | 9 | NOV 24 | MSDS-CCOHS file reloaded |
| NEWS | 10 | DEC 08 | CABA reloaded with left truncation |
| NEWS | 11 | DEC 08 | IMS file names changed |
| NEWS | 12 | DEC 09 | Experimental property data collected by CAS now available in REGISTRY |
| NEWS | 13 | DEC 09 | STN Entry Date available for display in REGISTRY and CA/CAPLUS |
| NEWS | 14 | DEC 17 | DGENE: Two new display fields added |
| NEWS | 15 | DEC 18 | BIOTECHNO no longer updated |
| NEWS | 16 | DEC 19 | CROPU no longer updated; subscriber discount no longer available |
| NEWS | 17 | DEC 22 | Additional INPI reactions and pre-1907 documents added to CAS databases |
| NEWS | 18 | DEC 22 | IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields |
| NEWS | 19 | DEC 22 | ABI-INFORM now available on STN |
| NEWS | 20 | JAN 27 | Source of Registration (SR) information in REGISTRY updated and searchable |
| NEWS | 21 | JAN 27 | A new search aid, the Company Name Thesaurus, available in CA/CAPLUS |
| NEWS | 22 | FEB 05 | German (DE) application and patent publication number format changes |
| NEWS | 23 | MAR 03 | MEDLINE and LMEADLINE reloaded |
| NEWS | 24 | MAR 03 | MEDLINE file segment of TOXCENTER reloaded |
| NEWS | 25 | MAR 03 | FRANCEPAT now available on STN |
| NEWS | 26 | MAR 29 | Pharmaceutical Substances (PS) now available on STN |
| NEWS | 27 | MAR 29 | WPIFV now available on STN |
| NEWS | 28 | MAR 29 | No connect hour charges in WPIFV until May 1, 2004 |
| NEWS | 29 | MAR 29 | New monthly current-awareness alert (SDI) frequency in RAPRA |
| NEWS EXPRESS | | | MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004 |
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FILE 'HOME' ENTERED AT 18:19:15 ON 05 APR 2004

=> file ca, biosis, medline
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

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FILE 'BIOSIS' ENTERED AT 18:19:35 ON 05 APR 2004
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FILE 'MEDLINE' ENTERED AT 18:19:35 ON 05 APR 2004

=> s hypotension?
L1 79530 HYPOTENSION?

=> methylcysteine?
METHYLCYSTEINE? IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s ?methylcysteine?
L2 2450 ?METHYLCYSTEINE?

=> s l1 and l2
L3 4 L1 AND L2

=> d 1-4 ab,bib

L3 ANSWER 1 OF 4 CA COPYRIGHT 2004 ACS on STN
AB A method of inhibiting the actions of S-nitrosothiols and nitric oxide which often occur in conditions such as septic shock, chronic or acute pain syndromes, uterine hypotonus, or certain gastrointestinal disorders. The method involving inhibiting the cellular binding of S-nitrosothiols to their cellular receptors or the signal transduction that would result. This is accomplished by administering an S-alkylthiol such as S-methyl-L-cysteine or S-ethyl-L-cysteine to a patient as an antagonist of S-nitrosothiol.

AN 138:19498 CA

TI S-methylcysteine, S-ethylcysteine, and related S-alkylthiols as antagonists to the effects of S-nitrosothiols and nitric oxide

IN Bates, James N.; Lewis, Stephen J.

PA USA

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI US 2002187137 A1 20021212 US 2001-879710 20010612
 WO 2002100811 A1 20021219 WO 2002-US18499 20020611
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO,
 CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRAI US 2001-879710 A 20010612

L3 ANSWER 2 OF 4 CA COPYRIGHT 2004 ACS on STN

AB This study examined whether S-nitroso- β,β - **dimethylcysteine** (S-nitrosopenicillamine; SNPEN) may activate stereoselective S-nitrosothiol receptors within the vasculature. We examined 1) the hemodynamic effects produced by the L- and D-isomers of SNPEN (12.5-400 nmol/kg i.v.), the L- and D-isomers of the parent thiols [L- and D-penicillamine (PEN); 12.5-400 nmol/kg i.v.], and the nitric oxide (NO) donors sodium nitroprusside (SNP; 1-10 μ g/kg i.v.) in conscious rats; 2) the hemodynamic effects produced by these compds. in urethane-anesthetized rats; and 3) the relative decomposition of L- and D-SNPEN to NO on addition to rat blood or cultured porcine aortic smooth muscle (PASM) cells. We found that 1) L-SNPEN was a more potent hypotensive and vasodilator agent within the mesenteric bed and within sympathetically intact and sympathetically denervated hindlimb beds of conscious rats than was D-SNPEN; 2) the **hypotension** and vasodilation produced by L-SNPEN was similar in conscious and anesthetized rats, whereas the effects of D-SNPEN and SNP were augmented by urethane-anesthesia; 3) L- and D-PEN did not affect hemodynamic parameters in conscious or anesthetized rats; and 4) L- and D-SNPEN decomposed equally to NO on addition to rat blood or PASM cells. These results suggest that the vasodilator effects of SNPEN involve the interaction of this S-nitrosothiol with stereoselective recognition sites within the vasculature and that urethane alters the mechanisms by which L- and D-SNPEN relax vascular smooth muscle.

AN 127:314551 CA

TI Hemodynamic effects of L- and D-S-nitroso- β,β - **dimethylcysteine** in rats

AU Travis, Mark D.; Davisson, Robin L.; Bates, James N.; Lewis, Stephen J.

CS Cardiovascular Cent. and Dep. of Pharmacol., Univ. of Iowa, Iowa City, IA, 52242, USA

SO American Journal of Physiology (1997), 273(3, Pt. 2), H1493-H1501

CODEN: AJPHAP; ISSN: 0002-9513

PB American Physiological Society

DT Journal

LA English

L3 ANSWER 3 OF 4 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AB This study examined whether S-nitroso-beta,beta-**dimethylcysteine** (S-nitrosopenicillamine; SNPEN) may activate stereoselective S-nitrosothiol receptors within the vasculature. We examined 1) the hemodynamic effects produced by the L- and D-isomers of SNPEN (12.5-400 nmol/kg iv), the L- and D-isomers of the parent thiols (L- and D-penicillamine (PEN); 12.5-400 nmol/kg iv), and the nitric oxide (NO) donor sodium nitroprusside (SNP; 1-10 μ -g/kg iv) in conscious rats; 2) the hemodynamic effects produced by these compounds in urethan-anesthetized rats; and 3) the relative decomposition of L- and D-SNPEN to NO on addition to rat blood or cultured porcine aortic smooth muscle (PASM) cells. We found that 1) L-SNPEN was a more potent hypotensive and vasodilator agent within the mesenteric bed and within sympathetically intact and sympathetically denervated hindlimb beds of conscious rats than was D-SNPEN; 2) the **hypotension** and vasodilation produced by L-SNPEN was similar in conscious and anesthetized

rats, whereas the effects of D-SNPEN and SNP were augmented by urethan-anesthesia; 3) L- and D-PEN did not affect hemodynamic parameters in conscious or anesthetized rats; and 4) L- and D-SNPEN decomposed equally to NO on addition to rat blood or PASM cells. These results suggest that the vasodilator effects of SNPEN involve the interaction of this S-nitrosothiol with stereoselective recognition sites within the vasculature and that urethan alters the mechanisms by which L- and D-SNPEN relax vascular smooth muscle.

AN 1997:483633 BIOSIS
DN PREV199799782836
TI Hemodynamic effects of L- and D-S-nitroso-beta,beta-
dimethylcysteine in rats.
AU Travis, Mark D.; Davisson, Robin L.; Bates, James N.; Lewis, Stephen J.
[Reprint author]
CS Dep. Pharmacol., 2-272 Bowen Science Build., Univ. Iowa, Iowa City, IA
52242, USA
SO American Journal of Physiology, (1997) Vol. 273, No. 3 PART 2, pp.
H1493-H1501.
CODEN: AJPHAP. ISSN: 0002-9513.
DT Article
LA English
ED Entered STN: 7 Nov 1997
Last Updated on STN: 10 Dec 1997

L3 ANSWER 4 OF 4 MEDLINE on STN
AB This study examined whether S-nitroso-beta,beta-**dimethylcysteine**
(S-nitrosopenicillamine; SNPEN) may activate stereoselective
S-nitrosothiol receptors within the vasculature. We examined 1) the
hemodynamic effects produced by the L- and D-isomers of SNPEN (12.5-400
nmol/kg iv), the L- and D-isomers of the parent thiols [L- and
D-penicillamine (PEN); 12.5-400 nmol/kg iv], and the nitric oxide (NO)
donor sodium nitroprusside (SNP; 1-10 micrograms/kg iv) in conscious rats;
2) the hemodynamic effects produced by these compounds in
urethan-anesthetized rats; and 3) the relative decomposition of L- and
D-SNPEN to NO on addition to rat blood or cultured porcine aortic smooth
muscle (PASM) cells. We found that 1) L-SNPEN was a more potent
hypotensive and vasodilator agent within the mesenteric bed and within
sympathetically intact and sympathetically denervated hindlimb beds of
conscious rats than was D-SNPEN; 2) the **hypotension** and
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rats, whereas the effects of D-SNPEN and SNP were augmented by
urethan-anesthesia; 3) L- and D-PEN did not affect hemodynamic parameters
in conscious or anesthetized rats; and 4) L- and D-SNPEN decomposed
equally to NO on addition to rat blood or PASM cells. These results
suggest that the vasodilator effects of SNPEN involve the interaction of
this S-nitrosothiol with stereoselective recognition sites within the
vasculature and that urethan alters the mechanisms by which L- and D-SNPEN
relax vascular smooth muscle.

AN 97463058 MEDLINE
DN PubMed ID: 9321842
TI Hemodynamic effects of L- and D-S-nitroso-beta,beta-
dimethylcysteine in rats.
AU Travis M D; Davisson R L; Bates J N; Lewis S J
CS Cardiovascular Center, University of Iowa, Iowa City 52242, USA.
NC HL-14388 (NHLBI)
SO American journal of physiology, (1997 Sep) 273 (3 Pt 2) H1493-501.
Journal code: 0370511. ISSN: 0002-9513.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199710
ED Entered STN: 19971105
Last Updated on STN: 19971105